

Abstract Submitted
for the MAS20 Meeting of
The American Physical Society

Analysis of Te-REX Sources Using HAWC Observatory Data

MAYA DEBSKI, ERICA HELLER, MIGUEL MOSTAFA, Pennsylvania State University, HAWC OBSERVATORY COLLABORATION — Te-REX (TeV-emitting Radio-emitting X-Ray) sources are a sample of high-energy peaked BL Lac (HBL) objects selected from the larger REX catalogue because they are thought to be TeV-emitting. We focus on six sources identified as visible by Fermi-LAT (Large Area Telescope). Using data collected with the High Altitude Water Cherenkov (HAWC) Observatory, we aim to get a better picture of the energy emitted by these sources and their flux at the Earth's surface. Exploring the highest energy emissions of these sources would allow us to get a more complete idea of the overall energy emissions of these specific sources. We calculate upper limits on all six sources to gain a better picture of their ability to emit in such a high energy range. We extrapolate the fluxes for these sources and identify which sources to further research.

Maya Debski
Pennsylvania State University

Date submitted: 02 Nov 2020

Electronic form version 1.4